

ACRONYMS

ADEOS	Advanced Earth Observing Satellite
ADOM	Acid Deposition and Oxidant Model
AQM	Air Quality Model
ASD	Accurate Space Derivative advection scheme
AVS	Advanced Visualization System
BCs	Boundary Conditions
BCON	Boundary Conditions processor
BDF	Backward Differentiation Formulae
BEIS	Biogenic Emissions Inventory System
BEIS2	Biogenic Emissions Inventory System - version 2
BELD	Biogenic Emissions Landuse Database
BOT	Bott Scheme for advection
CAAA-90	Clean Air Act Amendments of 1990
CB-IV (or CB-4)	Carbon Bond-IV chemical mechanism
CBWQM	Chesapeake Bay Water Quality Model
CCM2	Community Climate Model Version 2
CCTM	CMAQ Chemical Transport Model processor
CEM	Continuous Emission Monitor
CFL	Courant-Friedrich-Levy condition
CG	Coarser Grid
CMAQ	Community Multiscale Air Quality model
CORBA	Common Object Request Broker Architecture
CPU	Central Processing Unit of a computer
CTM	Chemical Transport Model
CVS	Concurrent Versions System
ECIP	Emissions-Chemistry Interface Processor
EMPRO	Emissions Processor
EPA	Environmental Protection Agency
FAST	Flow Analysis Software Toolkit
FDDA	Four-Dimensional Data-Assimilation
FG	Finer Grid
FIPS	Federal Identification Protocol System
FSL	Forecast Systems Laboratory
GCIP	GEWAX Continental Scale International Project
GEMAP	Geocoded Emission Modeling and Projection
HSPF	Hydrologic Simulation Program FORTRAN
I/O API	Input/Output Applications Programming Interface
ICs	Initial Concentration
ICON	Initial Conditions processor
IDA	Inventory Data Analyzer
IEEE	Institute of Electrical and Electronics Engineers, Inc.
INPRO	MEPPS Input Processor

IPR	Integrated Process Rates
IRR	Integrated Reaction Rates
JPROC	Photolysis Rate Processor
LRPM	LaGrangian Reaction Plume Module
LUPROC	Landuse processor for MCIP
MAPS/RUC	Mesoscale Analysis and Prediction System/Rapid Update Cycle
MCIP	Meteorology-Chemistry Interface processor
MEPPS	Models-3 Emissions Processing and Projection System
MEPRO	Models-3 Emissions Projection Processor
MEPSE	Major Elevated Point Source Emitter
MEPSEs	Major Elevated Point Source Emitters
MM5	Fifth Generation Mesoscale Model
MPS	Multiple Projection System
MRF	Medium Range Forecast
NAAQS	National Ambient Air Quality Standards
NARSTO-NE	North American Research Strategy for Tropospheric Ozone - Northeast
NASA	National Aeronautics and Space Administration
NCAR	National Center for Atmospheric Research
NCEP	National Centers for Environmental Prediction
NOAA	National Oceanic and Atmospheric Administration
NO _x	Oxides of Nitrogen
NQS	Network Queuing Service
NSSDC	National Satellite Service Data Center
O ₃	Ozone
ODE	Ordinary Differential Equations
OODBMS	Object Oriented Data Base Management System
OUTPRO	MEPPS Output Processor
PACP	Process Analysis Control Program
PAN	Peroxy Acetyl Nitrate
PART5	Mobile Source Particulate Model 5
PAVE	Package for Analysis and Visualization of Environmental Data
PBL	Planetary Boundary Layer
PCP	Program Control Processor
PDM	Plume Dynamics Model
PinG	Plume-in-Grid
PM	Particulate Matter
PM10	Particulate Matter less than 10 μm in diameter
PM2.5	Particulate Matter less than 2.5 μm in diameter
PPM	Piecewise-Parabolic Method advective scheme
PSU	Pennsylvania State University
QSSA	Quasi-Steady State Approximation method
RADM	Regional Acid Deposition Model
RADM2	Regional Acid Deposition Model Version 2
RCS	Revision Control System

RELMAP	Regional Lagrangian Modeling of Air Pollution
RMSE	Root Mean Square Error
ROG	Reactive Organic Gases
ROM	Regional Oxidant Model
RPM	Regional Particulate Model
SAPRC	State Air Pollution Research Center chemical mechanisms
SAQM	SARMAP Air Quality Model
SAS	Statistical Analysis System
SCC	Source Classification Code
SCCS	Source Code Control System
SIP	State Implementation Plan
SMO	Smolarkiewicz advection scheme
SMOKE	Sparse Matrix Operator Kernel Emissions system
SMVGEAR	Sparse Matrix Vectorized Gear algorithm
TOG	Total Organic Gases
SO _x	Oxides of Sulfur
STEM	Sulfur Transport and Emissions Model
SVOC	Semi-Volatile Organic Compounds
TKE	Turbulent Kinetic Energy
TOMS	Total Ozone Mapping Spectrometer
UAM	Urban Airshed Model
UCAR	University Corporation for Atmospheric Research
UTC	Universal Time Coordinate
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound
WRF	Weather Research and Forecasting
XDR	eXternal Data Representation
YAM	Yamartino-Blackman Cubic Scheme for advection